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Abstract

This invention describes methods for enhancing carbon flow into a pathway of a host cell to enhance the biosynthetic production of compounds therefrom, the host cells being selected based on being phenotypically  $\text{Pts}^{\text{-}}/\text{glucose}^{\text{+}}$ . Such host cells are capable of transporting glucose without consuming PEP, resulting in conservation of PEP which can be re-directed into the pathway in order to enhance the production of desired compounds along the pathway.  $\text{Pts}^{\text{-}}/\text{glucose}^{\text{+}}$  mutants have been shown to be advantageous for the enhanced production of the aromatic amino acids.



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